Claims:

1. A protein or its molecular variant that can induce an allergic reaction in persons sensitized to the protein.

2. A protein or its molecular variant as claimed in claim 1 characterized in that the DNA sequence encoding the protein or a portion of the protein is as follows:

```
DNA: acgcgggggcgttaacacttggtttttgcttccacttcatggagttccctg   51
     ----1----1----1----1----1----1----1----1----1----1-

DNA: aaaccaataacaaccctatcatcactctctctttcttattatgcatgcttt   102
     ---1----1----1----1----1----1----1----1----1----1--

DNA: ccctagcttatgcttccgaaacctgtgattttccagcaatctttaacttcg   153
     --1----1----1----1----1----1----1----1----1----1---

DNA: gcgactccaattccgataccggtggcaaggcagctgccttttatcctctta   204
     -1----1----1----1----1----1----1----1----1----1----

DNA: accctccttatggagagactttctttcacaggtcgacaggaaggtactctg   255
     1----1----1----1----1----1----1----1----1----1----1

DNA: atggaaggctcataatagattttatcgccgagagtttcaatctcccatatc   306
     ----1----1----1----1----1----1----1----1----1----1-

DNA: tgagtccatatcttagttccctgggaagcaacttcaaacatggtgcagatt   357
     ---1----1----1----1----1----1----1----1----1----1--

DNA: ttgccacagcaggatccaccattaaactaccaactactattatacctgctc   408
     --1----1----1----1----1----1----1----1----1----1---

DNA: atggtggatttagtccattctaccttgatgtccaatattcgcaattccggc   459
     -1----1----1----1----1----1----1----1----1----1----

DNA: aattcatacccagatcacagtttatcagggaaactggaggcatatttgctg   510
     1----1----1----1----1----1----1----1----1----1----1

DNA: aattggtgcccgaggaatattattttgagaaagctttatacacattcgata   561
     ----1----1----1----1----1----1----1----1----1----1-

DNA: ttggtcaaaatgatcttacagaaggattcttgaacttaactgtggaagaag   612
     ---1----1----1----1----1----1----1----1----1----1--

DNA: tgaatgcaactgtccctgatcttgtgaatagcttctcagcaaacgttaaga   663
     --1----1----1----1----1----1----1----1----1----1---
```

DNA: aaatatacgatttgggagctagaacattttggattcacaacacaggaccaa 714
-l----l----l----l----l----l----l----l----l----l----l----

DNA: ttggttgtctttcattcattttaacgtattttccctgggcagaaaaggata 765
l----l----l----l----l----l----l----l----l----l----l----l

DNA: gtgcaggctgtgcaaaagcttacaatgaagttgctcagcattttaatcaca 816
----l----l----l----l----l----l----l----l----l----l----l-

DNA: agttgaaggagatcgttgctcaactcaggaaggatttgcctttagctacat 867
---l----l----l----l----l----l----l----l----l----l----l--

DNA: tcgtccacgttgacatctattctgtcaagtattctttattcagtgagccag 918
--l----l----l----l----l----l----l----l----l----l----l---

DNA: aaaaacacggtttcgagtttccacttataacatgttgtggctacggaggaa 969
-l----l----l----l----l----l----l----l----l----l----l----

DNA: agtacaattttagtgttactgctccatgtggagatacagttacagcagacg 1020
l----l----l----l----l----l----l----l----l----l----l----l

DNA: acggtaccaaaatagttgtgggttcatgtgcttgcccttcagttcgagtaa 1071
----l----l----l----l----l----l----l----l----l----l----l-

DNA: attgggatggagctcactacactgaagctgccaatgaatatttttttcgacc 1122
---l----l----l----l----l----l----l----l----l----l----l--

DNA: agatttctacaggagccttctctgatccccctgttccattgaatatggcat 1173
--l----l----l----l----l----l----l----l----l----l----l---

DNA: gtcataaaactgaatcattgaggacattagcctctgtataggttatatgaa 1224
-l----l----l----l----l----l----l----l----l----l----l----

DNA: agtgctttgctgaaagcccgctaataaaatgaggaataataataaatgaga 1275
l----l----l----l----l----l----l----l----l----l----l----l

DNA: aaccattgattatgttaggattcacttggtttctatcataataatctatct 1326
----l----l----l----l----l----l----l----l----l----l----l-

DNA: gttgtatatacaacagttgtatgaaatagtttcttgtaataaagacttgtc 1377
---l----l----l----l----l----l----l----l----l----l----l--

DNA: tttctccggtttcccta 1394

3. A protein or its molecular variant as claimed in claim 1 or 2 characterized in that the protein or its molecular variant has the following properties:

a. has a molecular weight of about 42,000 Dalton;

b. has an isoelectric point of about 4.7;

c. binds with IgE of patients sensitized to the protein; and

d. contains the amino acid sequence or portions there of or minor variations of these amino acid sequence as shown below:

```
AGALTLGFCFHFMEFPETNNNPIITLSFLLCMLSLAYASETCDFPAIFNF
----l----l----l----l----l----l----l----l----l----l 50

GDSNSDTGGKAAAFYPLNPPYGETFFHRSTGRYSDGRLIIDFIAESFNLP
----l----l----l----l----l----l----l----l----l----l 100

YLSPYLSSLGSNFKHGADFATAGSTIKLPTTIIPAHGGFSPFYLDVQYSQ
----l----l----l----l----l----l----l----l----l----l 150

FRQFIPRSQFIRETGGIFAELVPEEYYFEKALYTFDIGQNDLTEGFLNLT
----l----l----l----l----l----l----l----l----l----l 200

VEEVNATVPDLVNSFSANVKKIYDLGARTFWIHNTGPIGCLSFILTYFPW
----l----l----l----l----l----l----l----l----l----l 250

AEKDSAGCAKAYNEVAQHFNHKLKEIVAQLRKDLPLATFVHVDIYSVKYS
----l----l----l----l----l----l----l----l----l----l 300

LFSEPEKHGFEFPLITCCGYGGKYNFSVTAPCGDTVTADDGTKIVVGSCA
----l----l----l----l----l----l----l----l----l----l 350

CPSVRVNWDGAHYTEAANEYFFDQISTGAFSDPPVPLNMACHKTESLRTL
----l----l----l----l----l----l----l----l----l----l 400

ASV*VI*KCFAESPLIK*GIIINEKPLIMLGFTWFLS**SICCIYNSCMK
----l----l----l----l----l----l----l----l----l----l 450

*FLVIKTCLSPVSL
----l----l----   464
```

4. A process for obtaining a protein or its molecular variant according to any one of Claims 1 - 3 wherein the process comprises the following steps:

a) centrifuging the latex for obtaining the bottom fraction;

b) freeze-thawing the bottom fraction for obtaining the latex B-serum; and

c) isolating and purifying the protein from the B-serum obtained in step (b).

5. A process for obtaining a protein or its molecular variant as claimed in Claim 4 wherein the isolation and purification of the protein are carried out via a series of chromatographic separations.

6. A process for obtaining a protein or its molecular variant as claimed in claim 5 wherein the chromatographic separation is ion exchange chromatography and gel filtration.

7. A peptide that is derived from the protein as claimed in any one of claims 1 - 3 or prepared according to the process as claimed in any one of claims 4 - 6 wherein the peptide has similar allergenic properties as the protein as claimed in claims 1 - 3.

8. A DNA sequence encoding the protein or a portion of the protein as claimed in claim 1 wherein the DNA sequence or minor variations of this sequence is as shown below:

```
DNA: acgcgggggcgttaacacttggtttttgcttccacttcatggagttccctg   51
     ----1----1----1----1----1----1----1----1----1----1-

DNA: aaaccaataacaaccctatcatcactctctctttcttattatgcatgcttt   102
     ---1----1----1----1----1----1----1----1----1----1--

DNA: ccctagcttatgcttccgaaacctgtgattttccagcaatctttaacttcg   153
     --1----1----1----1----1----1----1----1----1----1---

DNA: gcgactccaattccgataccggtggcaaggcagctgccttttatcctctta   204
     -1----1----1----1----1----1----1----1----1----1----
```

DNA: accctccttatggagagactttctttcacaggtcgacaggaaggtactctg 255
l----l----l----l----l----l----l----l----l----l----l----l

DNA: atggaaggctcataatagattttatcgccgagagtttcaatctcccatatc 306
----l----l----l----l----l----l----l----l----l----l----l-

DNA: tgagtccatatcttagttccctgggaagcaacttcaaacatggtgcagatt 357
---l----l----l----l----l----l----l----l----l----l----l--

DNA: ttgccacagcaggatccaccattaaactaccaactactattatacctgctc 408
--l----l----l----l----l----l----l----l----l----l----l---

DNA: atggtggatttagtccattctaccttgatgtccaatattcgcaattccggc 459
-l----l----l----l----l----l----l----l----l----l----l----

DNA: aattcatacccagatcacagtttatcagggaaactggaggcatatttgctg 510
l----l----l----l----l----l----l----l----l----l----l----l

DNA: aattggtgcccgaggaatattattttgagaaagctttatacacattcgata 561
----l----l----l----l----l----l----l----l----l----l----l-

DNA: ttggtcaaaatgatcttacagaaggattcttgaacttaactgtggaagaag 612
---l----l----l----l----l----l----l----l----l----l----l--

DNA: tgaatgcaactgtccctgatcttgtgaatagcttctcagcaaacgttaaga 663
--l----l----l----l----l----l----l----l----l----l----l---

DNA: aaatatacgatttgggagctagaacattttggattcacaacacaggaccaa 714
-l----l----l----l----l----l----l----l----l----l----l----

DNA: ttggttgtctttcattcattttaacgtattttccctgggcagaaaaggata 765
l----l----l----l----l----l----l----l----l----l----l----l

DNA: gtgcaggctgtgcaaaagcttacaatgaagttgctcagcattttaatcaca 816
----l----l----l----l----l----l----l----l----l----l----l-

DNA: agttgaaggagatcgttgctcaactcaggaaggatttgcctttagctacat 867
---l----l----l----l----l----l----l----l----l----l----l--

DNA: tcgtccacgttgacatctattctgtcaagtattctttattcagtgagccag 918
--l----l----l----l----l----l----l----l----l----l----l---

DNA: aaaaacacggtttcgagtttccacttataacatgttgtggctacggaggaa 969
-l----l----l----l----l----l----l----l----l----l----l----

DNA: agtacaattttagtgttactgctccatgtggagatacagttacagcagacg 1020
l----l----l----l----l----l----l----l----l----l----l----l

DNA: acggtaccaaaatagttgtgggttcatgtgcttgcccttcagttcgagtaa 1071
----l----l----l----l----l----l----l----l----l----l----l-

DNA: attgggatggagctcactacactgaagctgccaatgaatatttttttcgacc 1122
---l----l----l----l----l----l----l----l----l----l----l--

DNA: agatttctacaggagccttctctgatccccctgttccattgaatatggcat 1173
--l----l----l----l----l----l----l----l----l----l----l---

DNA: gtcataaaactgaatcattgaggacattagcctctgtataggttatatgaa 1224
-l----l----l----l----l----l----l----l----l----l----l----

DNA: agtgctttgctgaaagcccgctaataaaatgaggaataataataaatgaga 1275
l----l----l----l----l----l----l----l----l----l----l----l

DNA: aaccattgattatgttaggattcacttggtttctatcataataatctatct 1326
----l----l----l----l----l----l----l----l----l----l----l-

DNA: gttgtatatacaacagttgtatgaaatagtttcttgtaataaagacttgtc 1377
---l----l----l----l----l----l----l----l----l----l----l--

DNA: tttctccggtttcccta 1394
--l----l----l----

9. A method for the production of a protein or its molecular variant in recombinant form according to any one of claims 1 - 7 comprising the steps of:

a. inserting the DNA encoding the protein or a variant of the protein into an appropriate vector; and

b. inducing the vector to express a recombinant protein.

10. A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 9 wherein the DNA encoding the protein or a variant of the protein is as shown below:.

DNA: acgcgggggcgttaacacttggtttttgcttccacttcatggagttccctg 51
----l----l----l----l----l----l----l----l----l----l----l-

DNA: aaaccaataacaaccctatcatcactctctctttcttattatgcatgcttt 102
---l----l----l----l----l----l----l----l----l----l----l--

DNA: ccctagcttatgcttccgaaacctgtgattttccagcaatctttaacttcg 153
--l----l----l----l----l----l----l----l----l----l----l---

DNA: gcgactccaattccgataccggtggcaaggcagctgccttttatcctctta 204
-l----l----l----l----l----l----l----l----l----l----l----

DNA: accctccttatggagagactttctttcacaggtcgacaggaaggtactctg 255
l----l----l----l----l----l----l----l----l----l----l----l

DNA: atggaaggctcataatagattttatcgccgagagtttcaatctcccatatc 306
----l----l----l----l----l----l----l----l----l----l----l-

DNA: tgagtccatatcttagttccctgggaagcaacttcaaacatggtgcagatt 357

DNA: ttgccacagcaggatccaccattaaactaccaactactattatacctgctc 408

DNA: atggtggatttagtccattctaccttgatgtccaatattcgcaattccggc 459

DNA: aattcatacccagatcacagtttatcagggaaactggaggcatatttgctg 510

DNA: aattggtgcccgaggaatattattttgagaaagctttatacacattcgata 561

DNA: ttggtcaaaatgatcttacagaaggattcttgaacttaactgtggaagaag 612

DNA: tgaatgcaactgtccctgatcttgtgaatagcttctcagcaaacgttaaga 663

DNA: aaatatacgatttgggagctagaacattttggattcacaacacaggaccaa 714

DNA: ttggttgtctttcattcattttaacgtattttccctgggcagaaaaggata 765

DNA: gtgcaggctgtgcaaaagcttacaatgaagttgctcagcattttaatcaca 816

DNA: agttgaaggagatcgttgctcaactcaggaaggatttgcctttagctacat 867

DNA: tcgtccacgttgacatctattctgtcaagtattctttattcagtgagccag 918

DNA: aaaaacacggtttcgagtttccacttataacatgttgtggctacggaggaa 969

DNA: agtacaattttagtgttactgctccatgtggagatacagttacagcagacg 1020

DNA: acggtaccaaaatagttgtgggttcatgtgcttgcccttcagttcgagtaa 1071

DNA: attgggatggagctcactacactgaagctgccaatgaatatttttcgacc 1122

DNA: agatttctacaggagccttctctgatccccctgttccattgaatatggcat 1173

DNA: gtcataaaactgaatcattgaggacattagcctctgtataggttatatgaa 1224

DNA: agtgctttgctgaaagcccgctaataaaatgaggaataataataaatgaga 1275

DNA: aaccattgattatgttaggattcacttggtttctatcataataatctatct 1326
----l----l----l----l----l----l----l----l----l----l----l-

DNA: gttgtatatacaacagttgtatgaaatagtttcttgtaataaagacttgtc 1377
---l----l----l----l----l----l----l----l----l----l----l--

DNA: tttctccggtttcccta 1394
--l----l----l----

11. A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 9 or 10 wherein the vector is a micro-organism, a plant or an animal.

12. A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 11 wherein the micro-organism is a bacterium, a virus or a yeast.

13. A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 12 wherein the bacterium is *Escherichia coli*.

14. A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 9 wherein the inducer is preferably isopropyl thiogalactoside (IPTG) or any other suitable inducer.

15. A recombinant protein or its molecular variant in recombinant form produced according to the methods as claimed in any one of claims 9 - 14.

16. The use of native protein or its molecular variant as claimed in any one of claims 1 - 7 in immunoassay and immunotherapy.

17. The use of recombinant protein or its molecular variant in recombinant form as claimed in any one of claims 8 -15 in immunoassay and immunotherapy.